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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/542,897	04/04/2000	Jerry H. Chisnell	FTP141A US	5716

21133 7590 06/03/2003

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TROY, MI 48084

EXAMINER

PATEL, VISHAL A

ART UNIT	PAPER NUMBER
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3676

DATE MAILED: 06/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/542,897

Applicant(s)

CHISNELL, JERRY H.

Examiner

Vishal Patel

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 March 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 and 15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

The indicated allowable subject matter for claims 2-7 is withdrawn in view of the newly discovered reference(s). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Frye (US. 4,715,624).

Frye discloses a fluid tight conduit connecting comprising:

a female component (13);

a male component (12) positioned within the female component such that the female component circumscribes the male component;

the female component includes a mounting surface and a through bore extending through the female component, the through bore having a chamfer (tapered section near 21 in contact with 14) in the mounting surface, the chamfer and the through bore defining a transition surface therebetween;

one of the plurality of collar sections engaged in annular line contact against the tapered surface to secondarily seal the fluid tight conduit connection; and

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a composite sleeve seal circumscribing the male component such that the composite sleeve seal is interposed the male and female component for sealing the fluid-tight conduit connection, the composite sleeve seal comprising:

a body portion including a plurality of collar section (collar sections as shown in figure 6 below) spaced apart from one another to define at least one gap therebetween (gap between each collar),

the plurality of collar sections being interconnected by at least one link segment (link segment as shown in fig. 6 below) spanning the at least one gap;

at least one seal portion (seal portion 16) interposed the plurality of collar sections in the at least one gap and surrounding the at least one link segment to interlock the at least one seal portion with the body portion to form the composite sleeve seal as one integral component;

the plurality of collar sections are made of plastic (entire 14 is made of plastic) and the at least one seal portion is made of rubber material (o-rings are made of rubber).

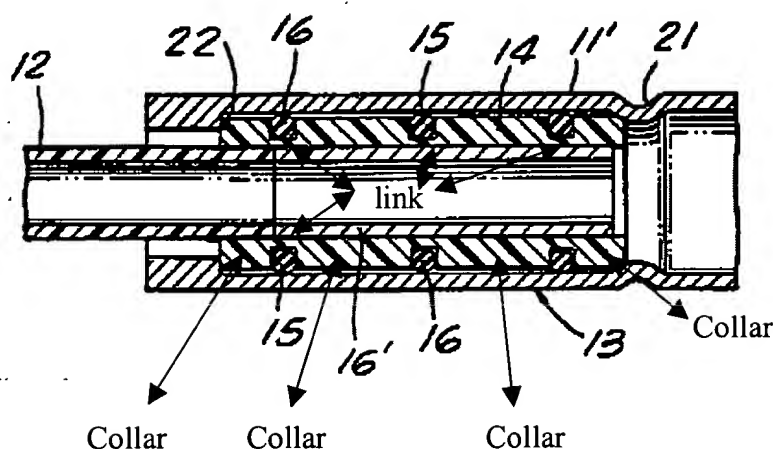


FIG. 6.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 4-6 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frye in view of Thompson (US. 2,809,060).

Regarding claims 4-5 and 9-10:

Frye discloses the invention substantially as claimed above but fails to disclose that the link segment comprises at least three reinforcement members (members similar to 30 of applicants) to interconnect the plurality of collar sections together. Thompson teaches a seal to have reinforcement members that extend axially and are embedded in the seal (16 embedded in seal 15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the composite sleeve seal of Frye to have reinforcement members as

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taught by Thompson to provide strength to the sleeve member (inherent teaching of or purpose of a reinforcement member).

Frye and Thompson disclose the invention substantially as claimed above but fail to disclose three reinforcement members. It would have been obvious to one having ordinary skill in the art at the time the invention was made to configure the reinforcement members in the link segment to have three reinforcement, since have one or two or three would be considered to be a matter of design choice and would be obvious to one having ordinary skills in the art.

Regarding claims 6 and 11:

Frye and Thompson disclose the invention substantially as claimed above but fail to disclose that the reinforcement members are 120 degrees apart. It would have been obvious to one having ordinary skill in the art at the time the invention was made to configure the reinforcement members into three pieces and have the members to be 120 degrees a part, as a matter of design choice.

Regarding claim 15:

the link segment is the reinforcement member (meaning Thompson teaches a link segment embedded in a seal portion) and the seal portion is the portion that goes around the link segment (meaning that the link segment and the rings 16 described in paragraph 2 by Frye is the seal portion).

5. Claim 7 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frye in view of Hansel et al (US. 5,879,033).

Frye discloses the invention substantially as claimed above but fails to disclose that one of the plurality of collar sections includes a tapered portion having a tapered surface thereon.

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Hansel discloses a seal having a tapered portion (4) having a tapered surface at a collar section (collar having the tapered surface 4). It would have been obvious to one having ordinary skill in the art at the time the invention was made to configure the collar of Frye to have a tapered portion having a tapered surface thereon as taught by Hansel to provide easier insertion of the composite sleeve seal.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Incoing teaches a reinforcement member that is made of plastic or metal, Nader et al and Gahwiler.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vishal Patel whose telephone number is (703) 308-8495. The examiner can normally be reached on Monday through Friday from 7:30 PM to 4:00 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight, can be reached on (703) 309-3179.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168. Technology Center 3600 Customer Service is available at 703-308-1113. General Customer Service numbers are at 800-786-9199 or 703-308-9000. Fax Customer Service is available at 703-872-9325.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to: 703-872-9326, for formal communications for entry before Final action: or,
703-872-9327, for formal communications for entry after Final action.


For informal or draft communications, please label “**PROPOSED**” or “**DRAFT**” and fax to: 703-746-3814.

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Hand-delivered responses should be brought to Crystal Park Five, 2451 Crystal Drive, Arlington, Virginia, Seventh Floor (Receptionist suite adjacent to the elevator lobby).

VP

May 29, 2003



Anthony Knight
Supervisory Patent Examiner
Tech. Center 3600